

ABSTRACT OF THE DISCLOSURE

A high frequency cauterizing power supply unit includes a control circuit for controlling a power supply circuit and waveform generating circuit. The control circuit includes a timer for measuring an output period and pause period, and a counter for measuring the number of times of output. The control circuit detects a setting power and the number of times of output according to the diameter of a blood vessel with a simple method in a short period of time, and controls the output period so as to be shortened, and also controls a setting power and the number of times of output depending on the diameter of the blood vessel.